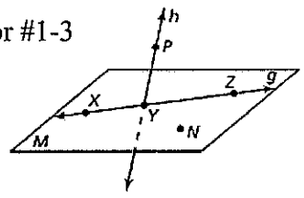
Name _____ Date_____ Score: _____ / 4

Chapter 1 Group Review

Use the diagram for #1-3



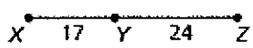
0.2

1. Give another name for plane M _____

2. Name a line intersecting the plane. _____

3. Name a pair of opposite rays _____ , _____

4. Find XZ. Start with a letter equation.

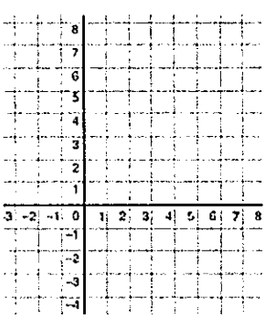


XZ = _____

5. Find the coordinates of the midpoint, M, between S and T.

0.2

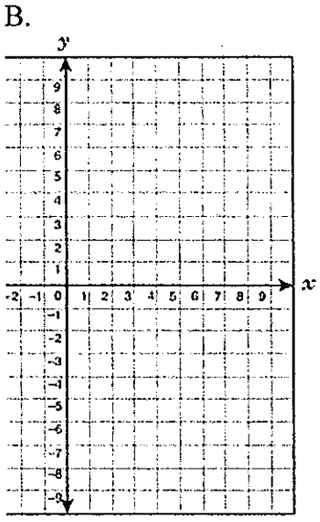
S(6, -3) and T(-2, 7)



M is at (_____ , _____)

0.4

6. The midpoint of $\overline{AB}$ is M(6, -1). One endpoint is A(3, 5). Find the coordinates of the other endpoint, B.



B is at (_____ , _____)

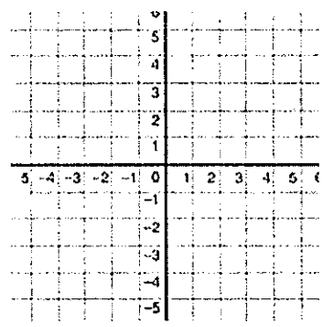
0.2

7. Point M is the midpoint of $\overline{AB}$, where $AM = 3x + 8$ and $MB = 6x - 4$. Find AB. Draw a diagram, and start with a letter equation.

8. Find the perimeter and area of the quadrilateral.

0.4

Q(-4, 3), R(2, 3), S(4, -3) and T(-2, -3)

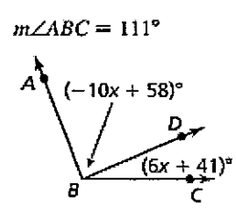


Perimeter of QRST: _____

Area of QRST: _____

9. Find $m\angle ABD$ and $m\angle CBD$ if $m\angle ABC = 111°$. Start with a letter equation.

0.2

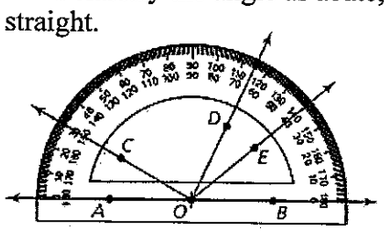


10. $\angle 1$ and $\angle 2$ are complementary angles. Given that $m\angle 1 = 12°$, find $m\angle 2$.

0.2

11. $\angle 3$ and $\angle 4$ are supplementary angles. Given that $m\angle 3 = 116°$, find $m\angle 4$.

0.2 12. Use the protractor to find the following angle measures. Then classify the angle as acute, right, obtuse, or straight.



a) $m\angle AOC$ b) $m\angle EOD$

0.4 13. You travel from City X to City Y. You know that the round-trip distance is 647 miles. City Z, a city you pass on the way, is 27 miles from City X. Find the distance from City Z to City Y. Draw a diagram, and show all work.

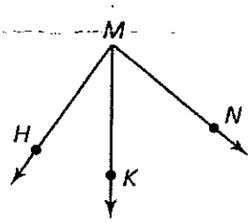
Diagram:

Work:

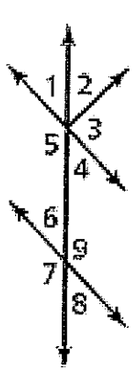
0.4 14. The measure of an angle is 12° more than twice the measure of its complement. Find the measures of the each of the angles.

15. Name 3 different angles in the diagram.

0.2



For #16-19, Use the diagram.



0.1 16. Identify all angles that make a linear pair with ∠1.

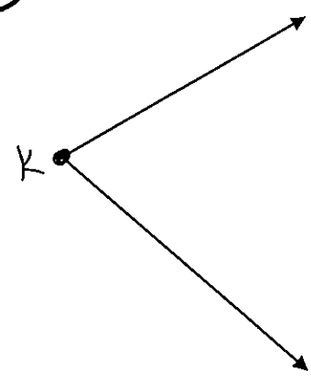
0.1 17. Identify all angles that make a linear pair with ∠7.

0.1 18. Are ∠6 and ∠8 vertical angles? Why or why not?

0.1 19. Are ∠2 and ∠5 vertical angles? Why or why not?

0.2 20. Construct a segment congruent to $\overline{XY}$

0.2 21. Construct an angle congruent to $\angle K$



0.2 22. Construct the angle bisector of $\angle Z$